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published,³⁶ this catalogue advances the region to the position of having one of the very few well known floras in the state. The present list includes 40 species of pteridophytes and 479 species of spermatophytes. One happy improvement in the present publication is the ecological definition of the habitat, replacing such time-honored but meaningless phrases as "hillsides," "glades," "woods," and "cool dry woods."—GEO. D. FULLER.

Plants of the Florissant lake beds.—These beds in Colorado have been famous for 50 years for their abundance of finely preserved fossil plants and insects. KNOWLTON³⁷ has now published a review of the plant material on deposit in the U.S. National Museum. Over 100 plants are presented, and among them 18 new species are described, chiefly woody dicotyledons. Two new genera are proposed; *Palaeopotamogeton* (Potamogetonaceae) and *Florisantia* (Solanaceae). The list of types of fossil plants from Florissant in the U.S. National Museum includes the names of 121 species.—J. M. C.

Mushroom fairy rings.—The occurrence of well developed "fairy rings" formed by a large mushroom known as *Tricholoma praemagnum* in the dry grassland of the open mountain parks of Colorado has been described by RAMALEY.³⁸ They have been observed in various localities, but all between 6000 and 9000 ft. in altitude. The rings vary much in size, the smallest observed being 3.3 m. across, and seen to increase in diameter at a rate of about 1 dm. per year. One of the interesting characteristics of the fungus is its distinctly xerophytic habit.—GEO. D. FULLER.

Aerating system.—HUNTER³⁹ has studied the structure of various air chambers in plants of *Vicia Faba* and has found spaces of various sorts in the testa of the seed, the cotyledons, the stem, the leaves, and the root. The study adds to our knowledge of the aerating system as developed in seed plants, even if it rather fails to justify the author's conclusion that the system is "elaborately adjusted in order to insure an efficient gaseous exchange for each living cell no matter where its position may be in the plant tissues."—GEO. D. FULLER.

³⁶ COOPER, W. S., A list of mosses collected upon Isle Royale, Lake Superior. *Bryologist* 16:3-8. 1913.

³⁷ KNOWLTON, F. H., A review of the fossil plants in the U.S. National Museum from the Florissant lake beds at Florissant, Colorado, with descriptions of new species and list of type specimens. *Proc. U.S. Nat. Mus.* 51:241-297. pls. 12-27. 1916.

³⁸ RAMALEY, FRANCIS, Mushroom fairy rings of *Tricholoma praemagnum*. *Torreya* 16:193-199. 1916.

³⁹ HUNTER, C., The aerating system of *Vicia Faba*. *Ann. Botany* 29:627-634. 1915.